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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,723	01/16/2004	Charles Calvin Byers	LUC-460/Byers 57-4-5	6552

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EXAMINER

KNOLL, CLIFFORD H

ART UNIT	PAPER NUMBER
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2112

DATE MAILED: 03/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/758,723	<b>Applicant(s)</b> BYERS ET AL.	
	<b>Examiner</b> Clifford H. Knoll	<b>Art Unit</b> 2112	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 January 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. *Claims 1-5 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Advanced TCA: PICMG 3.0 Short Form Specification (hereinafter ATCA) in view of Sandy (US 20040131065 A1).*

Regarding claims 1 and 8, ATCA discloses the first system board (e.g., p. 3, "Front Boards") and auxiliary circuit board connected to the first and means for providing input and output communications between the CPU and devices external to both boards (e.g., p. 3, "RTMs"). ATCA does not expressly disclose providing decision making intelligence; however this is disclosed by Sandy. Sandy discloses providing decision-making intelligence for end-user services supported by the board (e.g., para. 23, "traffic manager 307"), with external devices at least some of which comprising sensors that sense parameters related to management control of the shelf (e.g., para. 33, "other nodes 404, 406, 408"), the CPU being solely responsible for decision-making intelligence for management control of at least a predetermined number of system circuit cards (e.g., para. 44, "plurality of packets ... are aggregated in plurality of stages

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451 prior to entering ... traffic manager"; para. 23, "collect, classify, modify (if necessary) and transport information") and responsible for decision making intelligence for end-user services of the first system circuit board (e.g., para. 23, "can also include memory 319, which can comprise control algorithms"). It would have been obvious to one of ordinary skill in the art to combine Sandy with ATCA because Sandy teaches the application using a widely used standard, such as ATCA (e.g., para. 21).

Regarding claim 2, ATCA also discloses connecting the boards (e.g., p. 3, "RTMs providing user defined input and output connectivity to the companion Front Board").

Regarding claim 3, ATCA also discloses the architecture (p. 1, Overview).

Regarding claims 4 and 9, ATCA also discloses the RTM (e.g., p. 3, "RTMs").

Regarding claims 5 and 10, ATCA also discloses the midplane connector support (e.g., p. 2, "Midplane Connector").

Regarding claim 11, ATCA does not expressly mention the other system circuit boards as recited; however Sandy discloses these boards (e.g., para. 16, "switch card").

2. *Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over ATCA and Sandy as applied supra, further in view of Oliver (US 20040264472 A1).*

Regarding claim 6, ATCA also discloses a mezzanine board, but does not expressly mention its function as the claimed auxiliary board; however, it is widely known to use mezzanine boards for this function as seen in Oliver (e.g., para. 28, "external adjunct system"). It would have been obvious to one of ordinary skill in the art to

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combine Oliver with ATCA, because Oliver teaches the use of mezzanine boards to locate adjunct circuitry.

Regarding claim 7, ATCA also discloses the midplane supporting the first connector (e.g., p. 7, "RTM assembly").

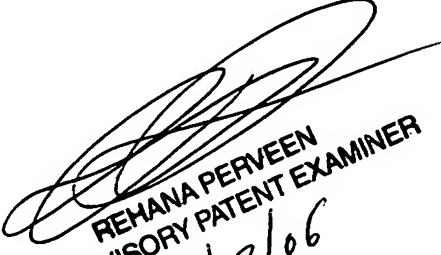
### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clifford H. Knoll whose telephone number is 571-272-3636. The examiner can normally be reached on M-F 0630-1500.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

chk

  
REHANA PERVEEN  
SUPERVISORY PATENT EXAMINER  
3/13/06